

--This application is a continuation of U.S. patent application serial no. 08/537,612 filed October 2, 1995 entitled Method For Rapid Thermal Cycling of Biological Samples which is a continuation-in-part of U.S. patent application serial no. 08/179,969 filed January 10, 1994 entitled Rapid Thermal Cycling Device, now U.S. Patent No. 5,455,175 issued on October 3, 1995[.] which is a continuation-in-part of U.S. patent application serial no. 07/815,966 filed January 2, 1992 entitled Rapid Thermal Cycling Device, now abandoned, which is a continuation-in-part of U.S. patent application serial no. 07/534,029 filed June 4, 1990 entitled Automated Polymerase Chain Reaction Device, now abandoned.--

IN THE CLAIMS:

Please cancel claims 1-29, without prejudice.

Please add new claims 30-56, as indicated below.

- 20            30. An improved method of amplifying a nucleic acid sequence by thermal cycling of the nucleic acid sequence in the presence of a thermostable DNA polymerase, said method comprising the steps of: